

L46 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN  
 AN 2004:143055 CAPLUS  
 DN 140:207496  
 ED Entered STN: 22 Feb 2004  
 TI Ink-jet recording medium containing amphoteric polymer  
 IN Ishida, Tadashi; Tomita, Yoshihiko; Kusumoto, Masaya  
 PA Mitsui Chemicals, Inc., Japan  
 SO PCT Int. Appl., 26 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA Japanese  
 IC ICM B41M005-00  
 ICS B41J002-01  
 CC 74-6 (Radiation Chemistry, Photochemistry, and Photographic and Other  
 Reprographic Processes)  
 Section cross-reference(s): 38

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004014658	A1	20040219	WO 2003-JP10006	20030806 <--
	W: CN, KR, US				
	RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR				
	TW 222937	B1	20041101	TW 2003-92121476	20030806
	EP 1547794	A1	20050629	EP 2003-784545	20030806
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, SK				
	JP 2004082729	A2	20040318	JP 2003-288491	20030807
PRAI	JP 2002-231701	A	20020808		
	WO 2003-JP10006	W	20030806		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2004014658	ICM	B41M005-00
	ICS	B41J002-01
WO 2004014658	ECLA	B41M005/00J6
EP 1547794	ECLA	B41M005/00J6
JP 2004082729	FTERM	2C056/EA05; 2C056/EA13; 2C056/FC06; 2H086/BA15; 2H086/BA33; 2H086/BA41; 2H086/BA45

AB The invention relates to an ink-jet recording medium having a support and, provided thereon, at least one ink receiving layer containing polymeric organic particles, characterized in that said polymeric organic particles have a oxide glass transition temperature of 40 °C or higher, and are amphoteric polymeric organic particles having both functional groups of cationic groups and anionic groups. The ink-jet recording medium is excellent in ink absorbing property, coloring concentration, gloss, and the resistance to water, light and yellowing, in particular, excellent in ink absorbing property, coloring concentration, gloss, and the resistance to light and yellowing.

ST ink jet recording

IT Polyelectrolytes  
 (amphoteric; ink-jet recording medium)

IT Ink-jet recording sheets  
 (paper; ink-jet recording medium)

IT Paper  
 (printing, ink-jet; ink-jet recording medium)

IT 203203-87-6DP, Styrene-tert-butyl methacrylate-2-hydroxyethyl methacrylate-methacrylic acid copolymer, 2-amidinopropanyl terminated  
 RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (ink-jet recording medium)

RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 RE

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  - (2) Arakawa Chemical Industries Ltd; JP 2003291518 A 2003 CAPLUS
  - (3) Canon Kabushiki Kaisha; JP 10-292137 A 1999 CAPLUS
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  - (6) Fuji Photo Film Co Ltd; US 5910359 A 1999 CAPLUS
  - (7) Ishida, T; US 20020182378 A1 2002
  - (8) Ishida, T; JP 200246347 A 2002
  - (9) Mitsui Chemicals Inc; JP 200286905 A 2002
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- RN 203203-87-6DP

L46 ANSWER 2 OF 2 WPIX COPYRIGHT 2005 THE THOMSON CORP on STN  
AN 2004-214436 [20] WPIX  
DNN N2004-169865 DNC C2004-084932  
TI Ink-jet recording medium has ink receiving layer including polymeric organic particles on support, which are amphoteric polymeric organic particles having specified glass transition temperature and cationic and anionic groups.  
DC A97 G05 P75 T04  
IN ISHIDA, T; KUSUMOTO, M; TOMITA, Y  
PA (MITA) MITSUI CHEM INC  
CYC 32  
PI WO 2004014658 A1 20040219 (200420)\* JA 26 B41M005-00 <--  
RW: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PT RO  
SE SI SK TR  
W: CN KR US  
JP 2004082729 A 20040318 (200420) 13 B41M005-00  
TW 222937 B1 20041101 (200532) B41M005-00  
EP 1547794 A1 20050629 (200543) EN B41M005-00  
R: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT  
RO SE SI SK TR  
ADT WO 2004014658 A1 WO 2003-JP10006 20030806; JP 2004082729 A JP 2003-288491  
20030807; TW 222937 B1 TW 2003-121476 20030806; EP 1547794 A1 EP  
2003-784545 20030806, WO 2003-JP10006 20030806  
FDT EP 1547794 A1 Based on WO 2004014658  
PRAI JP 2002-231701 20020808  
IC ICM B41M005-00  
ICS B41J002-01  
AB WO2004014658 A UPAB: 20040324  
NOVELTY - Ink-jet recording medium has at least 1 ink receiving layer including polymeric organic particles on a support, which are amphoteric polymeric organic particles having a glass transition temperature (Tg) of at least 40 deg. C and cationic and anionic groups.  
USE - Used as an ink-jet recording medium (claimed) used in printers and plotters using an ink-jet recording system.  
ADVANTAGE - The medium has excellent light absorbing properties, color concentration, gloss and resistance to water, light and yellowing.  
Dwg.0/0  
FS CPI EPI GMPI  
FA AB  
MC CPI: A12-W07F; G05-F03  
EPI: T04-G02E

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